

Amendments to the Claims:

Please amend the claims to read as follows:

- 1 1. (currently amended) A method for routing packets in a router having a
2 plurality of router interfaces through which the packets are received from
3 a plurality of address domains ~~and having a separate routing table~~
4 ~~dedicated to each address domain~~, the method comprising:
5 dedicating a separate routing table to each address domain of the
6 plurality of address domains;
7 associating each router interface with one of the routing tables;
8 and
9 executing a single IP stack to receive a packet[s] from any of the
10 router interfaces and to identify ~~an appropriate~~ the associated routing
11 table for handling the received packet[s].
- 1 2. (canceled)
- 1 3. (previously presented) The method of claim 1, wherein a mapping array
2 associates interfaces connecting to the same address domain with the
3 same routing table.
- 1 4. (previously presented) The method of claim 1, wherein executing a single
2 IP stack forwards a received packet according to the identified routing

3 table when the received packet is a data packet and updates the
4 identified routing table when the received packet is a control packet.

1 5. (canceled)

1 6. (original) The method of claim 1 wherein each of the plurality of address
2 domains represents a virtual private network.

1 7. (currently amended) A router comprising:
2 a plurality of router interfaces through which packets from a
3 plurality of address domains are received;
4 a separate routing table associated with each address domain; and
5 a domain manager executing a single IP stack to receive a packet[s]
6 from any of the router interfaces and to identify an appropriate routing
7 table for handling the received packet[s].

1 8. (canceled)

1 9. (previously presented) The router of claim 7, wherein the domain
2 manager comprises a mapping array that associates each interface to a
3 routing table.

1 10. (previously presented) The router of claim 7, wherein the domain
2 manager executing the single stack forwards a received packet according
3 to the identified routing table when the received packet is a data packet

4 and updates the identified routing table when the received packet is a
5 control packet.

1 11. (canceled)

1 12. (original) The router of claim 7 wherein each of the plurality of address
2 domains represents a virtual private network.

1 13.-20. (canceled)